

03050206-040
(Four Hole Swamp)

General Description

Watershed 03050206-040 is located in Orangeburg and Dorchester Counties and consists primarily of *Four Hole Swamp* and its tributaries from Cow Castle Creek to Dean Swamp. The watershed occupies 66,408 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Goldsboro-Rains-Lynchburg-Hobcaw series. The erodibility of the soil (K) averages 0.17; the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 1.91% urban land, 21.41% agricultural land, 8.58% scrub/shrub land, 0.38% barren land, 53.82% forested land, 13.41% forested wetland (swamp), 0.13% nonforested wetland (marsh), and 0.36% water.

As a reach of Four Hole Swamp, this watershed accepts the drainage from all streams entering the swamp system upstream. This section of Four Hole Swamp also receives drainage from the Cow Castle Creek watershed (03050206-030) and the Providence Swamp watershed (03050206-050). Target Swamp enters this watershed downstream of the Providence Swamp drainage followed by Spring Branch and Mill Branch. Further downstream Huttos Lake and Rowser Lake drain into Four Hole Swamp. Home Branch originates near the Town of Holly Hill and flows past the Town of Four Holes before entering the swamp. Mill Run and Dam Branch drain into the swamp at the base of the watershed. There are a total of 84.8 stream miles in this watershed. Four Hole Swamp is classified FW* (site specific classification requires DO not less than 4.0 mg/l and pH between 5.0-8.5), and the remaining streams are classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
E-112	W	FW*	FOUR HOLE SWAMP AT SC 453

Four Hole Swamp (E-112) - This stream was Class B until April, 1992. Aquatic life uses are partially supported due to dissolved oxygen excursions. This is a blackwater system, which are often characterized by naturally low pH and dissolved oxygen concentrations. Natural conditions in this stream may have contributed to the observed low dissolved oxygen values. Recreational uses are fully supported.

A fish consumption advisory has been issued by the Department for mercury and includes the streams within this watershed (see advisory p.31).

Permitted Activities

Point Source Contributions

RECEIVING STREAM	NPDES#
FACILITY NAME	TYPE
PERMITTED FLOW @ PIPE (MGD)	LIMITATION
COMMENT	
FOUR HOLE SWAMP	SC0001147
GA PACIFIC/HOLLY HILL	MINOR INDUSTRIAL
PIPE #: 002 FLOW: 1.000	EFFLUENT
PIPE #: 003 FLOW: 0.038	EFFLUENT
WETLAND; WQL FOR NH3-N, DO, TRC, BOD5	
FOUR HOLE SWAMP	SC0022667
GIANT CEMENT CO.	MINOR INDUSTRIAL

PIPE #: 001 FLOW: 0.0073
PIPE #: 002 FLOW: 2.494
PIPE #: 004 FLOW: 0.140
PIPE #: 002 FLOW: M/R
WETLAND

EFFLUENT
EFFLUENT
EFFLUENT
EFFLUENT

HOME BRANCH
HOLNAM, INC.
PIPE #: 001 FLOW: 8.000
PIPE #: 001A FLOW: 0.002
WETLAND

SC0002992
MINOR INDUSTRIAL
EFFLUENT
EFFLUENT

HUTTOS LAKE
GIANT CEMENT CO.
PIPE #: 003 FLOW: 0.545
PIPE #: 004 FLOW: 0.140

SC0022667
MINOR INDUSTRIAL
EFFLUENT
EFFLUENT

**LAND APPLICATION
FACILITY NAME**

**PERMIT #
TYPE**

SPRAY IRRIGATION
CITY OF HOLLY HILL

ND0063380
MINOR MUNICIPAL

Landfill Activities

**SOLID WASTE LANDFILL NAME
FACILITY TYPE**

**PERMIT #
STATUS**

GIANT CEMENT CO.
C&D LANDFILL

IWP-244
NOT YET OPEN

GA PACIFIC
INDUSTRIAL

383304-1601
ACTIVE

Mining Activities

**MINING COMPANY
MINE NAME**

**PERMIT #
MINERAL**

BLUE CIRCLE INC.
EVANS PIT

1087-38
CLAY

HOLNAM, INC.
MARL & CLAY QUARRY

0054-38
LIMESTONE

Water Supply

**WATER USER (TYPE)
WATERBODY**

**REGULATED CAPACITY (MGD)
PUMPING CAPACITY (GPM)**

GIANT CEMENT CO.-HARLEYVILLE (I)
FOUR HOLE SWAMP

4.608
3,200

Growth Potential

Interstates 95 and 26 cross in this watershed and should promote some growth around the following interchanges: I-95 & I-26, I-95 & U.S. Highway 178, and I-26 & S.C. Highway 15; U.S. Highway 176 crosses a rail line in the City of Holly Hill.